

Material Off-Shore Sourcing MOSS Project

Customs / Logistics Strategies to Strengthen Long Distance Supply Chains

Story Points:

- Define the Problem
- Goals and Objectives
- Current Status
- Test Harness

MOSS - Define the Problem

- An inordinate amount of paper documents has resulted in substantial delays in moving freight,
- Many service providers are faxing, emailing and even carrying paper documents, faxed documents are often unreadable or missing critical information,
- Many trading partners use EDI internally and then revert to paper when conducting transportation and government business,
- End to end shipment visibility is limited to numerous proprietary systems, many of these are not real time and do not cover all events end to end,
- Split shipments, changing modes, and other high and low impact disruptions are very difficult to manage.

Current State Communication – communicating by email, phone calls, faxes and paper documents is expensive and error prone.



AMR Survey reports:

91% of all communication problems are directly attributable to the use of email, phone, fax and paper. With only 9% of problems emanating through use of electronic data exchange.

79% of all data used in long distance supply chains is re-keyed multiple times into the various systems for business, customs and shipping.

AMR Survey Highlights

Current State Communication Mediums



79% of respondents believe standardizing the exchange of information will reduce disruptions in the supply chain.

% who use these methods to move data

90% Use Email to move data

83% Use Phone calls to move data

81% Use Faxes to move data

56% Use Paper to move data

53% Use EDI to move data

18% Use Edifact to move data

11% Use XML to move data

MOSS - Project Goals and Objectives

- ◆ Eliminate or significantly reduce the use of paper documents and enhance the flow of electronic information
- ◆ Improve compliance (C-TPAT, WCO Standards for Secure Trade)
- ◆ Improve visibility and improve security
- ◆ Improve predictability and reduce trade lane uncertainty
- ◆ Improve response to disruptions and supply chain resiliency
- ◆ Reduce buffer inventory
- ◆ Reduce expedites and premium transportation costs
- ◆ Increase corporate profitability

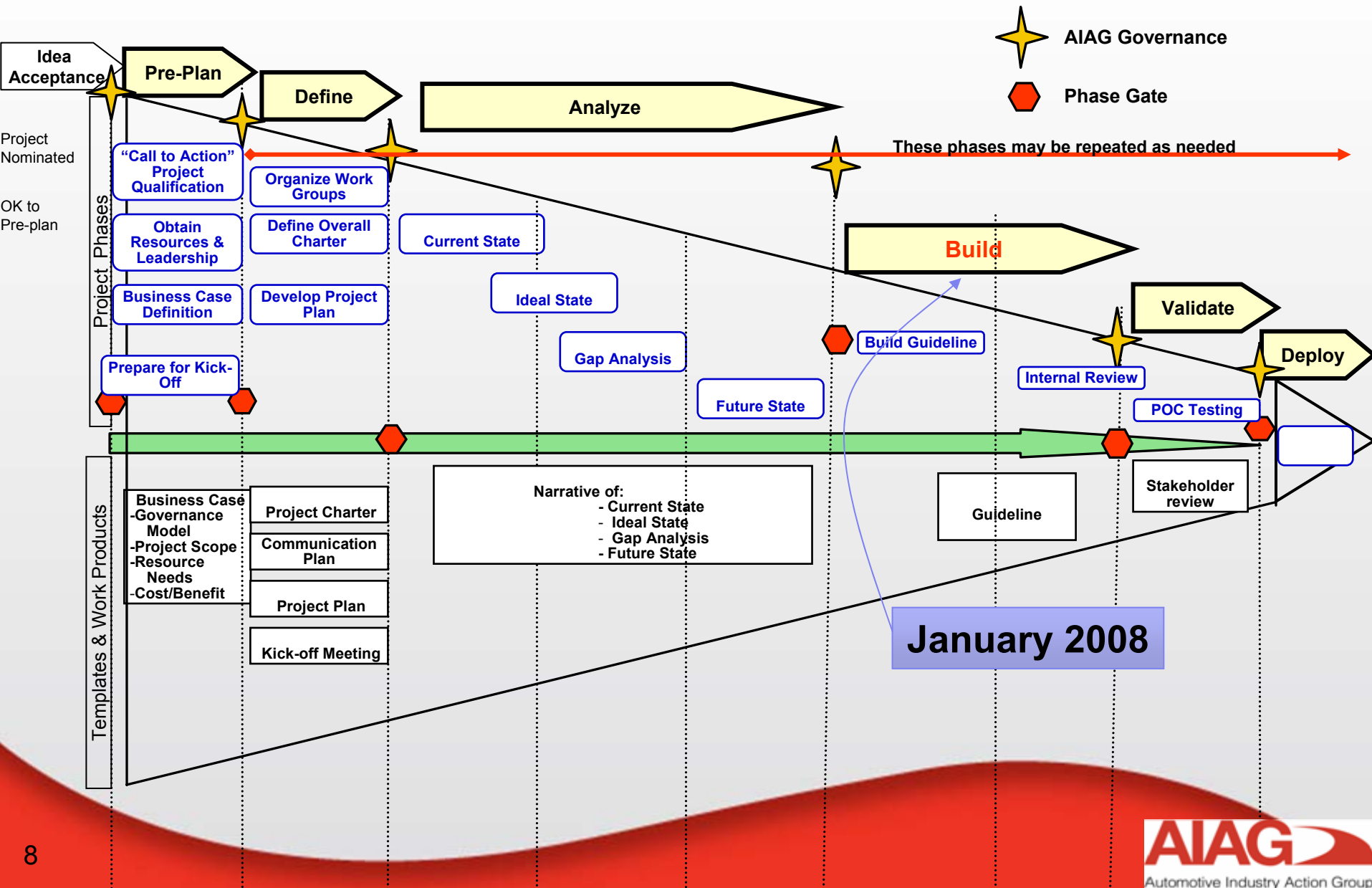
AMR Survey Highlights

Industry Pain Points:

Which benefits would you expect your company to achieve from improvements in offshore/long distance supply chains?

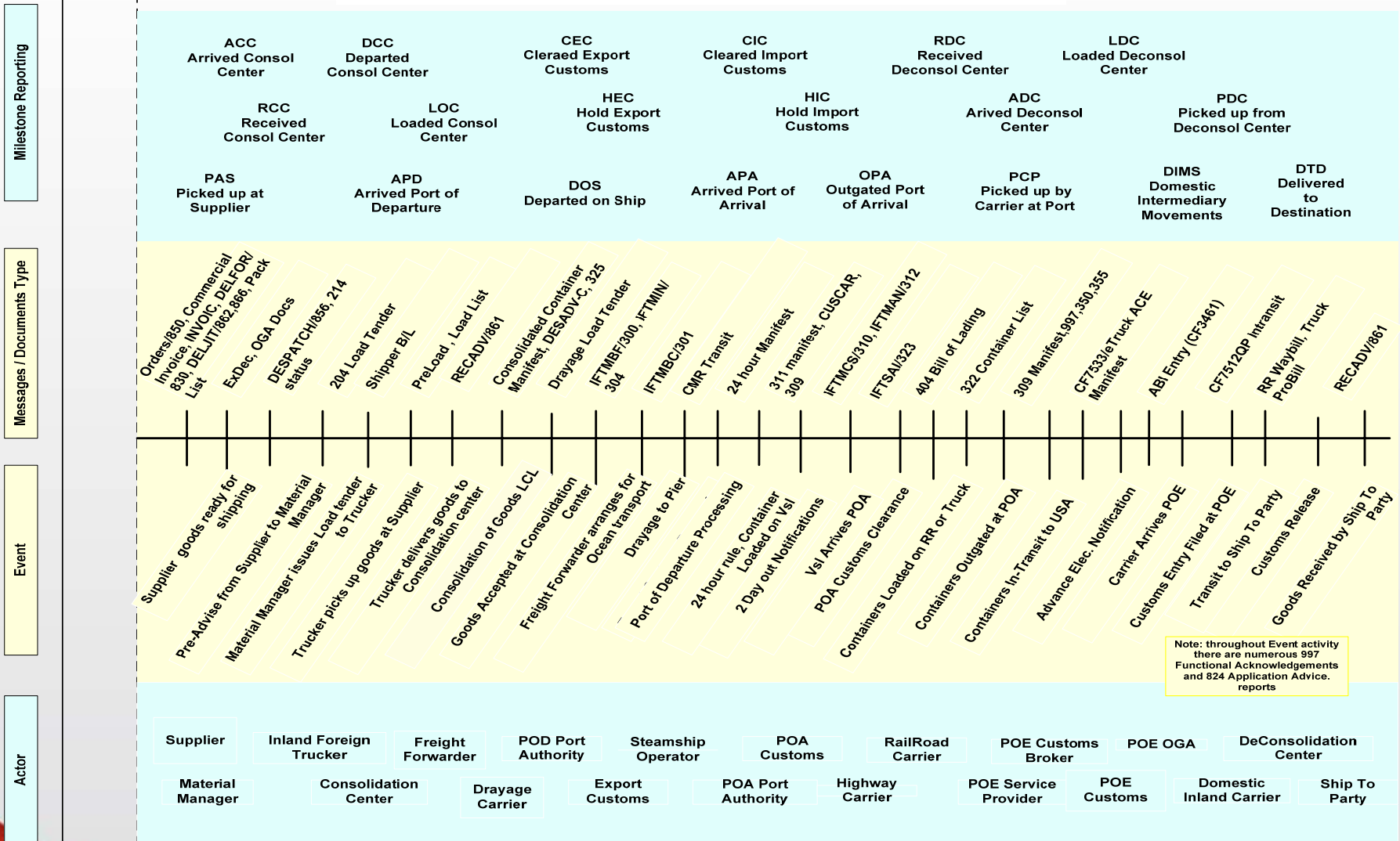
- ♦ 78% expect reductions in buffer stock inventory
- ♦ 74% expect reductions in the use of premium freight
- ♦ 71% expect improved visibility to material flow
- ♦ 61% expect improved data integrity

AIAG Project Management Process



MOSS Complexities of the Long Distance Supply Chain

SUMMARY INBOUND PROCESS FLOW: EU-CAMTR-USA



Complexities of current state long distance supply chains

	Long Distance Supply Chain (within Scope of MOSS)	Included in Proof of Concept
	↓	↓
# Actors.....	20	6
# Events.....	33	9
# Messages/documents.....	30	9
# Status messages (milestone reports)	20	9
# Data elements.....	496	75

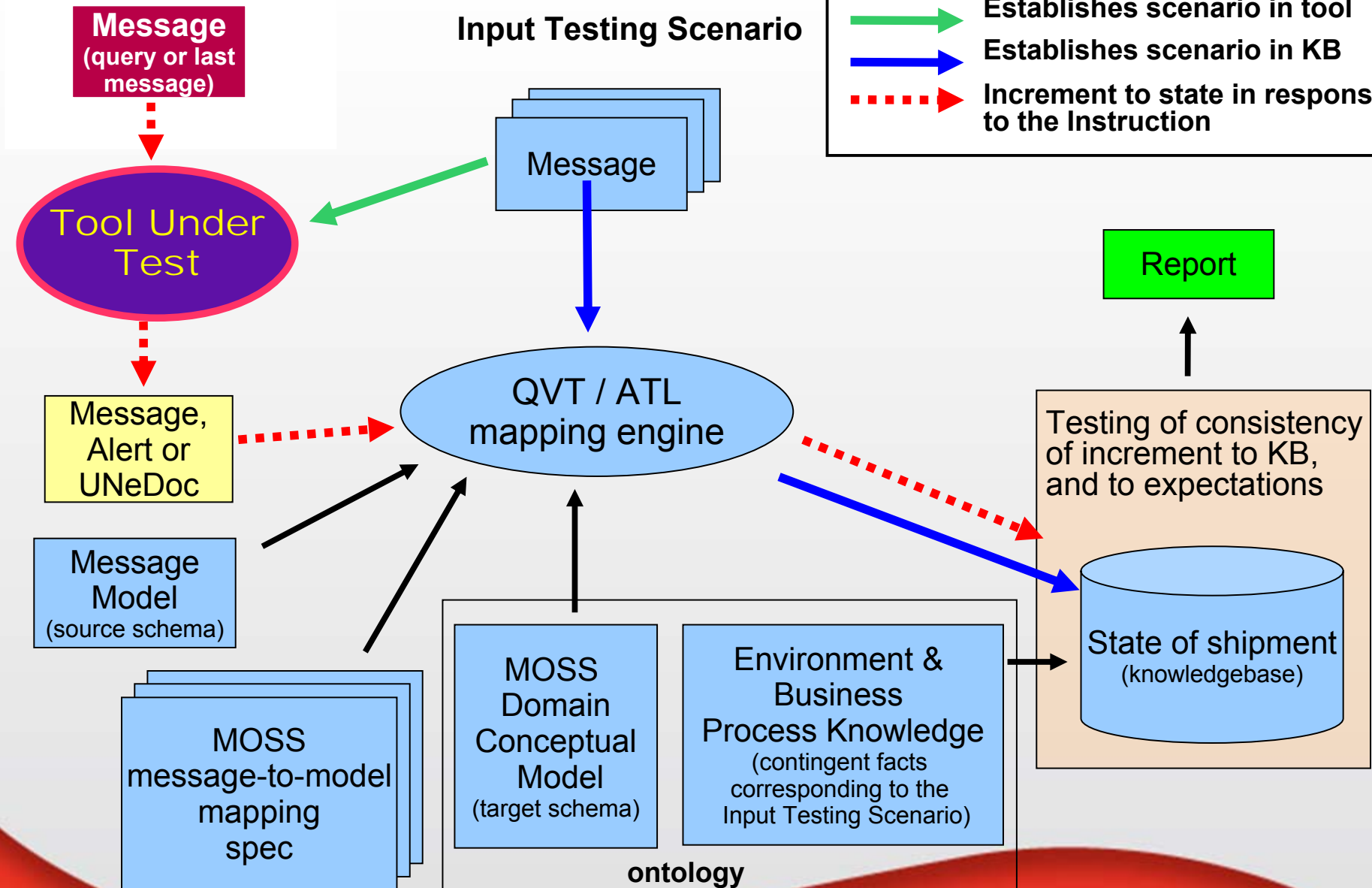
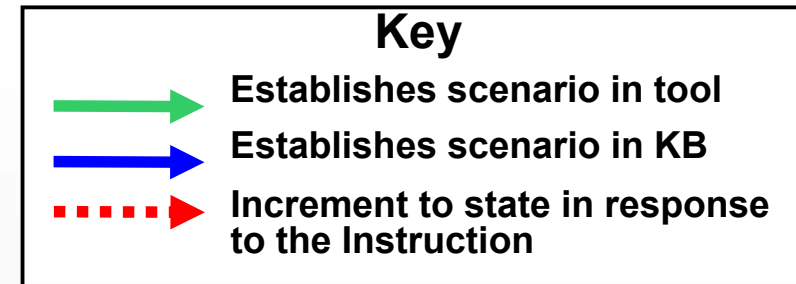


National Institute of Standards and Technology (NIST) Manufacturing Systems Integration Division:

*NIST provides to MOSS technical expertise in developing
standardized data protocols used in long distance supply chains.*

- ◆ Developed a NIST Website at <http://syseng.nist.gov/moss>
- ◆ Developing a MOSS Conceptual Model
- ◆ Developing a MOSS Testbed

MOSS Testbed (unit test view)



Contact Information

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THANK YOU!!